

## WHAT IS CLAIMED IS

1. A collapsible, reusable box including in combination:

first and second side walls and first and second end walls hingedly interconnected together;

first and second bottom end flaps hingedly connected to the first and second end walls, respectively;

first and second bottom side flaps hingedly connected to the first and second side walls, respectively, wherein the first bottom side flap has a width less than the width of the first and second end walls, and the second bottom side flap has a free edge and a width substantially equal to the width of the first and second end walls;

a projection on the free edge of the second bottom side flap extending outwardly therefrom; and

a slot aligned with the projection on the free edge of the second bottom slot flap and located substantially at the connection of the first side wall and the first bottom side flap, wherein with the box assembled, the second bottom side flap overlies the first bottom side flap with the projection extending into the slot.

2. A collapsible reusable box according to Claim 1 wherein the box is made of corrugated material.

3. A collapsible reusable box according to Claim 2 wherein the corrugated material is corrugated plastic.

1 4. A collapsible reusable box according to Claim 3 wherein the interconnections of the first  
2 and second side walls and the first and second end walls are formed by foldable hinge lines.

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4 5. The collapsible reusable box according to Claim 4 wherein the first and second bottom  
5 end flaps are connected by a foldable hinge to the first and second end walls, respectively, and  
6 wherein the first and second bottom side flaps are connected by a foldable hinge to the first and  
7 second side walls, respectively.

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10 6. A collapsible reusable box according to Claim 5 wherein the interconnections of the first  
11 and second side walls with the first and second end walls, and the interconnections of the first and  
12 second bottom end flaps with the first and second end walls, and the interconnections of the first  
13 and second bottom side flaps with the first and second side walls are score lines in the material.

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16 7. The collapsible reusable box according to Claim 6 wherein the score lines are either  
17 crushed score lines, or perforated score lines.

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19 8. A collapsible reusable box according to Claim 7 wherein the first and second side walls,  
20 the first and second end walls, the first and second bottom end flaps, and the first and second bottom  
21 side flaps all are fabricated from a unitary of material.

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9. A collapsible reusable box according to Claim 8 further including means for interconnecting the first bottom end flap with the first bottom side flap and the second bottom end flap with the second bottom side flap along diagonal hinge lines to form an automatic lock bottom to the box.

10. A collapsible reusable box according to Claim 1 wherein the first and second side walls, the first and second end walls, the first and second bottom end flaps, and the first and second bottom side flaps all are fabricated from a unitary of material.

11. A collapsible reusable box according to Claim 10 further including means for interconnecting the first bottom end flap with the first bottom side flap and the second bottom end flap with the second bottom side flap along diagonal hinge lines to form an automatic lock bottom to the box.

12. A collapsible reusable box according to Claim 1 wherein the interconnections of the first and second side walls and the first and second end walls are formed by foldable hinge lines.

13. The collapsible reusable box according to Claim 12 wherein the first and second bottom end flaps are connected by a foldable hinge to the first and second end walls, respectively, and wherein the first and second bottom side flaps are connected by a foldable hinge to the first and second side walls, respectively.

1 14. A collapsible reusable box according to Claim 1 wherein the interconnections of the first  
2 and second side walls with the first and second end walls, and the interconnections of the first and  
3 second bottom end flaps with the first and second end walls, and the interconnections of the first  
4 and second bottom side flaps with the first and second side walls are score lines in the material.

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6 15. A collapsible reusable box according to Claim 14 wherein the first and second side walls,  
7 the first and second end walls, the first and second bottom end flaps, and the first and second bottom  
8 side flaps all are fabricated from a unitary of material.

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11 16. The collapsible reusable box according to Claim 15 wherein the score lines are either  
12 crushed score lines, or perforated score lines.

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14 17. A collapsible reusable box according to Claim 1 further including means for  
15 interconnecting the first bottom end flap with the first bottom side flap and the second bottom end  
16 flap with the second bottom side flap along diagonal hinge lines to form an automatic lock bottom  
17 to the box.

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20 18. The collapsible reusable box according to Claim 1 wherein the first and second bottom  
21 end flaps are connected by a foldable hinge to the first and second end walls, respectively, and  
22 wherein the first and second bottom side flaps are connected by a foldable hinge to the first and  
23 second side walls, respectively.  
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